

5     **What is claimed is:**

1. A method of applying a two-component pavement marking composition comprising:  
providing a two-component composition wherein a first part is provided in a first  
chamber and a second part is provided in a second chamber and wherein the first and  
10     second chambers have a total volume ranging from about 0.1 liters to about 10 liters;  
advancing the first part and second part into a mixing device forming a mixture; and  
dispensing the mixture with an applicator onto pavement.

2. The method of claim 1 wherein the total volume of the first and second chambers is  
15     less than 5 liters.

3. The method of claim 1 wherein the composition is provided in a hand-held gun-type  
applicator.

4. The method of claim 1 wherein the first chamber and second chamber are provided in  
20     the form of a removable cartridge.

5. The method of claim 4 wherein the removable cartridge comprises a rigid material.

6. The method of claim 5 wherein the removable cartridge comprises molded plastic.  
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7. The method of claim 5 wherein the removable cartridge comprises lined cardboard.

8. The method of claim 4 wherein the removable cartridge is disposable.  
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9. The method of claim 1 wherein the first chamber and second chamber are provided by  
a rigid housing.

10. The method of claim 9 wherein removable collapsible tubes are provided within the  
35     first and second chambers.

- 5 11. The method of claim 9 wherein the two-component composition is poured into the first and second chambers.
12. The method of claim 1 wherein the mixing device is a static mixer.
- 10 13. The method of claim 12 wherein the static mixer comprises a rigid plastic material.
14. The method of claim 13 wherein the static mixer is disposable.
- 15 15. The method of claim 1 wherein the applicator is a spray head
16. The method of claim 15 wherein the spray head dispenses the mixture as a mist.
17. The method of claim 1 wherein the applicator provides a substantially continuous line having a width of at least about 5 cm.
- 20 18. The method of claim 17 wherein the line has a film thickness of at least about .25 mm when dispensed at a distance of less than about 15 cm.
19. The method of claim 1 wherein the applicator is a ribbon extrusion head.
- 25 20. The method of claim 1 further comprising embedding a plurality of optical elements in the mixture after dispensing the mixture on the pavement.
- 30 21. A method of applying a two-component pavement marking composition comprising: providing a two-component composition wherein a first part is provided in a first chamber and a second part is provided in a second chamber and wherein the first and second chambers have a total volume ranging from about 0.1 liters to about 20 liters; advancing the first part and second part into a mixing device forming a mixture; and dispensing the mixture with an applicator onto pavement;
- 35 wherein the composition is provided in an apparatus that is substantially free of hoses that continuously meter the composition.

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22. A method of applying a two-component pavement marking composition comprising:  
providing a two-component composition in a cartridge wherein a first part is provided  
in a first chamber of the cartridge, a second part is provided in a second chamber of the  
cartridge and the cartridge has a total volume ranging from about 0.1 liters to about 5  
liters;  
mixing the first part and second part by means of advancing the first part and second  
part through a disposable static mixing tube;  
dispensing the mixture onto pavement with a spray applicator.

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23. An apparatus comprising:

a means for accepting a cartridge wherein the cartridge comprises at least two  
chambers wherein the first chamber comprises a first part of a two-part  
composition and the second chamber comprises a second part of a two-part  
composition;

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a means for advancing the first part and the second part from the cartridge into a  
static mixing device forming a mixture; and  
a means for spraying the mixture.

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24. The apparatus of claim 23 wherein the first and second chambers have a total volume  
of less than 5 liters.

25. The apparatus of claim 23 wherein the apparatus is substantially free of hoses that  
continuously feed meter the composition.

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26. The apparatus of claim 23 wherein the cartridge is comprised of a rigid plastic  
material.

27. The apparatus of claim 23 wherein the static mixing device is a disposable static  
mixing tube.

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5 28. The apparatus of claim 23 wherein the means for spraying provides the mixture as a mist.

29. The apparatus of claim 23 wherein the apparatus is a hand-held gun-type applicator.

10 30. The apparatus of claim 23 further comprising a harness.

31. The apparatus of claim 23 wherein the apparatus is further attached to a cart having wheels.

15 32. An apparatus comprising:

- a first chamber and a second chamber wherein the first and second chambers have a total volume ranging from about 0.1 liters to about 10 liters;
- a means for advancing the composition provided in the chambers into a static mixing device forming a mixture; and
- 20 a means for spraying the mixture.

33. An apparatus comprising:

- a first chamber and a second chamber wherein the first and second chambers have a total volume ranging from about 0.1 liters to about 20 liters;
- 25 a means for advancing a composition provided in the chambers into a static mixing device forming a mixture; and
- a means for spraying the mixture;

wherein the apparatus is substantially free of hoses that continuously meter the composition.

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34. A method of applying a two-component composition comprising:

- providing a two-component composition wherein the first part is in a first chamber and the second part is in a second chamber and wherein the first and second chambers have a total volume ranging from about 0.1 liters to about 10 liters;
- 35 advancing the first part and the second part into a static mixing device forming a mixture; and

5           dispensing the mixture with a spray applicator.

35. A method of applying a two-component composition comprising:

providing a two-component composition wherein the first part is in a first chamber and  
the second part is in a second chamber and wherein the first and second chambers have  
10 a total volume ranging from about 0.1 liters to about 20 liters;

advancing the first part and the second part into a static mixing device forming a  
mixture; and

dispensing the mixture with a spray applicator;

wherein the composition is provided in an apparatus that is substantially free of hoses  
15 that continuously meter the composition.

36. A pavement surface having a marking prepared according to the method of claim 1.

37. A pavement surface having a marking prepared according to the method of claim 21.

38. A pavement surface having a marking prepared according to the method of claim 22.